

SUBSTITUTE FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
8830-24SERIAL NO.
10/049,702

INFORMATION DISCLOSURE STATEMENT

APPLICANT:
Camilo Anthony Leo Selwyn ColacoFILING DATE
April 16, 2002GROUP
1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	AA	5,049,646	9/17/91	Tyagi, et al.	528	272	
	AB	5,561,221	10/1/96	Yoshida, et al.	530	350	
	AC	5,747,332	5/5/98	Wallen, et al.	435	272	
	AD	5,843,460	12/1/98	Labigne, et al.	424	234.1	
	AE	5,961,979	10/5/99	Srivastava	424	193.1	
	AF	5,981,706	11/9/99	Wallen, et al.	530	350	
	AG	6,248,330	6/19/01	Labigne, et al.	424	192.1	
	AH	6,368,599	4/9/02	Langermann, et al.	424	184.1	
	AI	6,410,028	6/25/02	Srivastava	424	193.1	
	AJ	6,447,781	9/10/02	Srivastava	424	193.1	
	AK	6,455,503	9/24/02	Srivastava	514	21	
	AL	6,500,434	12/31/02	Langermann, et al.	424	197.11	
	AM	6,576,244	6/10/03	Weltzin, et al.	424	234.1	
	AN	6,872,542	3/29/05	Hultgren, et al.	435	7.32	
	AO	6,913,750	7/5/05	Hultgren, et al.	424	190.1	
	AP	6,962,791	11/8/05	Hultgren, et al.	435	7.37	
	AQ	7,041,465	5/9/06	Hultgren, et al.	435	7.32	
	AR	2003/0082242	5/1/03	Rodriguez-Kabana	424	600	
	AS	2003/0099665	5/29/03	Langermann, et al.	424	190.1	

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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	AT	2003/0165516	9/4/03	Srivastava	424	185.1	
	AU	2003/0211102	11/13/03	Tiwari	424	145.1	
	AV	2003/0216315	11/20/03	Nicchitta, et al.	514	12	
	AW	2004/0022796	2/5/04	Srivastava	424	185.1	
	AX	2004/0047879	3/11/04	Tian, et al.	424	189.1	
	AY	2004/0052812	3/18/04	Hoe, et al.	424	186.1	
	AZ	2005/0232946	10/20/05	Colaco	424	199.1	

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	BA	WO 90/02564	3/22/90	PCT	A61K	39/005		
	BB	WO 96/40928	12/19/96	PCT	C12N	15/31		
	BC	WO 97/10002	3/20/97	PCT	A61K	39/385		
	BD	WO 00/10597	3/2/00	PCT	A61K	39/00		
	BE	WO 01/13944	3/1/01	PCT	A61K	39/00		
	BF	WO 01/63278	8/30/01	PCT	G01N	33/50		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BG	Bae, et al., "Mice immune responses to <i>Brucella abortus</i> heat shock proteins Use of baculovirus recombinant-expressing whole insect cells, purified <i>Brucella abortus</i> recombinant proteins, and a vaccinia virus recombinant as immunogens" <i>Veterinary Microbiology</i> 88 (2002) 189-202
BH	Bowie, et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions", <i>Science</i> , vol. 247: 1306-1310, 1990
BI	Buchmeier, et al., "Induction of Salmonella Stress Proteins upon Infection of Macrophages", <i>Science</i> , Vol. 248, No. 4956 (May 11, 1990), pp. 730-732
BJ	Deepe, et al., "Cellular and Molecular Regulation of Vaccination with Heat Shock Protein 60 from <i>Histoplasma capsulatum</i> ", <i>Infection and Immunity</i> , July 2002, p. 3759-3767, vol. 70, no. 7
BK	Del Giudice, et al., "Priming to Heat Shock Proteins in Infants Vaccinated against Pertussis", <i>The Journal of Immunology</i> , Vol. 150, 2025-2032, No. 5, March 1, 1993

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	BL	Ding, et al., "Complexes between Chaperonin GroEL and the Capsid Protein of Bacteriophage HK97", <i>Biochemistry</i> 1995, 34, 14918-14931
	BM	Eschweiler, et al., "In situ Localization of the 60 k Protein of <i>Helicobacter pylori</i> , which Belongs to the Family of Heat Shock Proteins, by Immuno-electron Microscopy", <i>Internal Journal of Medical Microbiology, Virology, Parasitology and Infectious Diseases</i> , Vol. 280, 73-85 (1993)
	BN	Evans, et al., "Urease-Associated Heat Shock Protein of <i>Helicobacter pylori</i> ", <i>Infection and Immunity</i> , Vol. 60, No. 5, p. 2125-2127, May 1992
	BO	Fayet, et al., "The <i>groES</i> and <i>groEL</i> Heat Shock Gene Products of <i>Escherichia coli</i> Are Essential for Bacterial Growth at All Temperatures", <i>Journal of Bacteriology</i> , Vol. 17, No. 3, Mar. 1989, p. 1379-1385
	BP	Fernandez, et al., "Elevated Levels of <i>Legionella pneumophila</i> Stress Protein Hsp60 Early in Infection of Human Monocytes and L929 Cells Correlate with Virulence", <i>Infection and Immunity</i> , Vol. 64, No. 6, June 1996, p. 1968-1976
	BQ	Ferrero, et al., "The GroES homolog of <i>Helicobacter pylori</i> confers protective immunity against mucosal infection in mice", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 92, pp. 6499-6503, July 1995
	BR	Greenspan, et al., "Defining epitopes: It's not as easy as it seems", <i>Nature Biotechnology</i> , Vol. 17, October 1999, 936-937
	BS	Hechard, et al., "Molecular cloning of the <i>Chlamydomonas reinhardtii</i> <i>groEL</i> gene and evaluation of its protective efficacy in a murine model by genetic vaccination", <i>Journal of Medical Microbiology</i> , (2004), 53, 861-868
	BT	Jindal, et al., "Stress responses to viral infection", <i>Trends in Microbiol.</i> , 2: 89-91, 1994
	BU	Laminet, et al., "The <i>Escherichia coli</i> heat shock proteins GroEL and GroES modulate the folding of the β -lactamase precursor", <i>The EMBO Journal</i> , vol. 9, no. 7, pp. 2315-2319, 1990
	BV	Leclercq, et al., "Induction of a Th1-type of immune response but not protective immunity by intramuscular DNA immunization with <i>Brucella abortus</i> GroEL heat-shock Gene", <i>J. Med. Microbiol.</i> - vol. 51 (2002), 20-26

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	BW	Lodish, et al., "Polypeptides Can Be Chemically Analyzed and Synthesized", <i>Molecular Cell Biology</i> , 3 rd ed., <i>Scientific American Books</i> , NY, 1995, p. 59
	BX	Motohashi, et al., "Heat-inactivated proteins are rescued by the DnaKJ-GrpE set and ClpB chaperones", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96, pp. 7184-7189, June 1999
	BY	Murray, et al., "Mechanisms of Viral Pathogenesis", <i>Medical Microbiology</i> , 4 th ed., Mosby 2002, pp. 429-434
	BZ	Narberhaus, "Negative regulation of bacterial heat shock genes", <i>Molecular Microbiology</i> , (1999) 31(1), 1-8
	CA	Noll, et al., "Immunity against <i>Yersinia enterocolitica</i> by Vaccination with <i>Yersinia</i> HSP60 Immunostimulating Complexes or <i>Yersinia</i> HSP60 plus Interleukin-12", <i>Infection and Immunity</i> , Vol. 64, No. 8, Aug. 1996, p. 2955-2961
	CB	Phipps, et al., "A novel ATPase complex selectively accumulated upon heat shock is a major cellular component of thermophilic archaeobacteria", <i>The EMBO Journal</i> , vol. 10, no. 7, pp. 1711-1722, 1991
	CC	Rambukkana, et al., "Identification and Characterization of Epitopes Shared between the Mycobacterial 65-Kilodalton Heat Shock Protein and the Actively Secreted Antigen 85 Complex: Their In Situ Expression on the Cell Wall Surface of <i>Mycobacterium leprae</i> ", <i>Infection and Immunity</i> , Vol. 60, No. 11, Nov. 1992, p. 4517-4527
	CD	Sedger, et al., "Heat Shock Response to Vaccinia Virus Infection", <i>Journal of Virology</i> , Vol. 68, No. 7, July 1994, p. 4685-4689
	CE	Sparrer, et al., "Catalysis of protein folding by symmetric chaperone complexes", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 94, pp. 1096-1100, February 1997
	CF	Stewart, et al., "Heat-shock proteins and the host-pathogen interaction during bacterial infection", <i>Current Opinion in Immunology</i> , 2004, 16: 506-510

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CG	Szabo, et al., "The ATP hydrolysis-dependent reaction cycle of the <i>Escherichia coli</i> Hsp70 system – DnaK, DnaJ, and GrpE", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 91, pp. 10345-10349, October 1994
CH	Tomioka, "Adjunctive Immunotherapy of Mycobacterial Infections", <i>Current Pharmaceutical Design</i> , 2004, 10, 3297-3312
CI	Turner, et al., "Lack of Protection in Mice and Necrotizing Bronchointerstitial Pneumonia with Bronchiolitis in Guinea Pigs Immunized with Vaccines Directed against the hsp60 Molecule of <i>Mycobacterium tuberculosis</i> ", <i>Infection and Immunity</i> , Vol. 68, No. 6, June 2000, p. 3674-3679
CJ	Wawrzynow, et al., "The ClpX heat-shock protein of <i>Escherichia coli</i> , the ATP-dependent substrate specificity component of the ClpP-ClpX protease, is a novel molecular chaperone", <i>The EMBO Journal</i> , vol. 14 no. 9 pp. 1867-1877, 1995
CK	Wilson, et al., "Transient expression of bacterial gene fragments in eukaryotic cells: implications for CD8+ T cell epitope analysis", <i>Journal of Immunological Methods</i> 234 (2000) 137-147
CL	Yokota, et al., "Heat Shock Protein Produced by <i>Helicobacter pylori</i> ", <i>Microbiol. Immunol.</i> , 38(5), 403-405, 1994
CM	Zeilstra-Ryalls, et al., "The Universally Conserved GroE (Hsp60) Chaperonins", <i>Annu. Rev. Microbiol.</i> , 1991, 45: 301-25
CN	Zugel, et al., "Role of Heat Shock Proteins in Protection from and Pathogenesis of Infectious Diseases", <i>Clinical Microbiology Reviews</i> , Vol. 12, No. 1, Jan. 1999, p. 19-39
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